

fig. 1

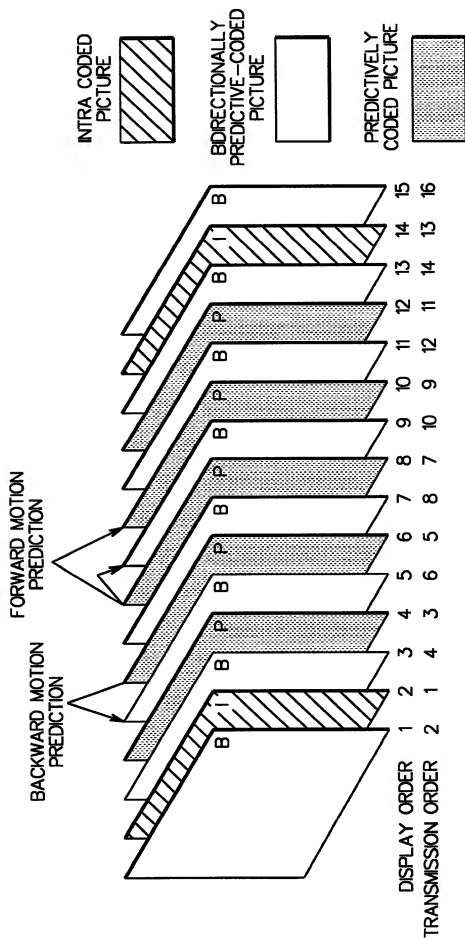


fig. 2

200

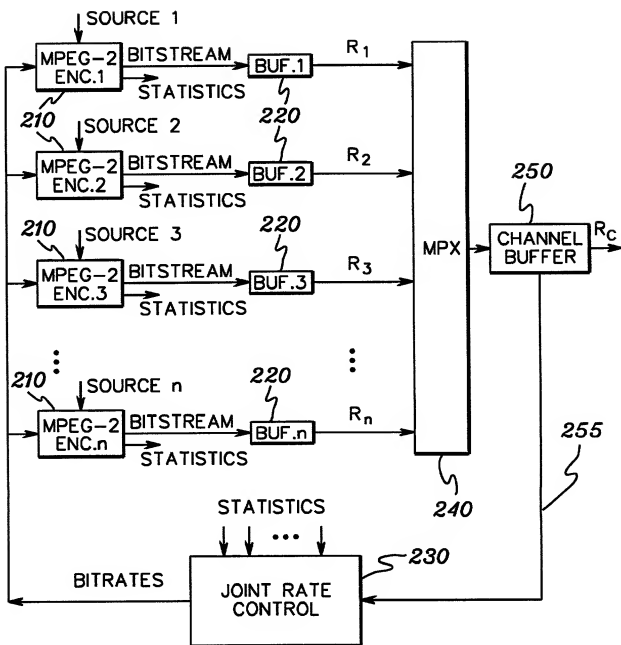


fig. 3



fig. 4

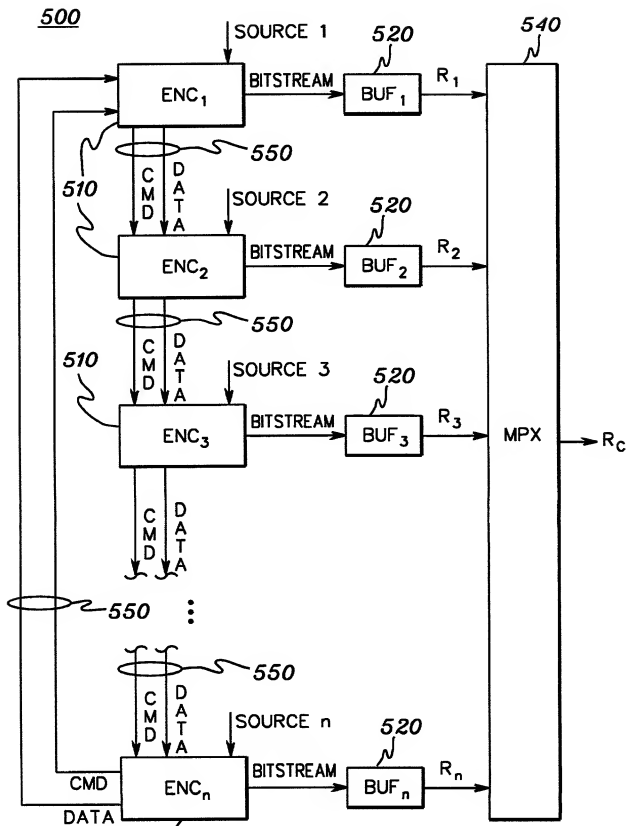


fig. 5

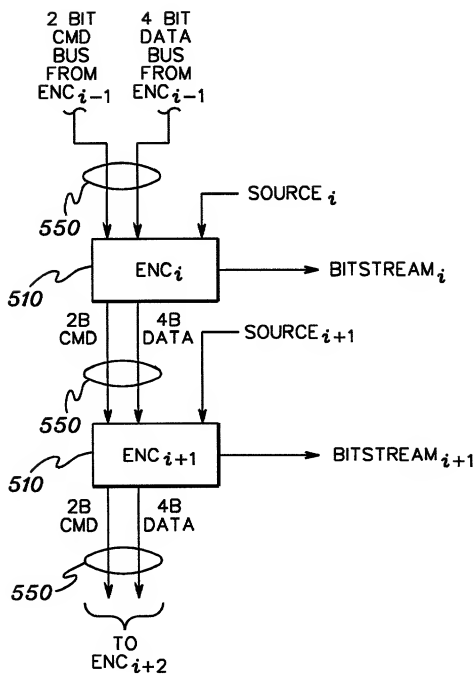


fig. 6

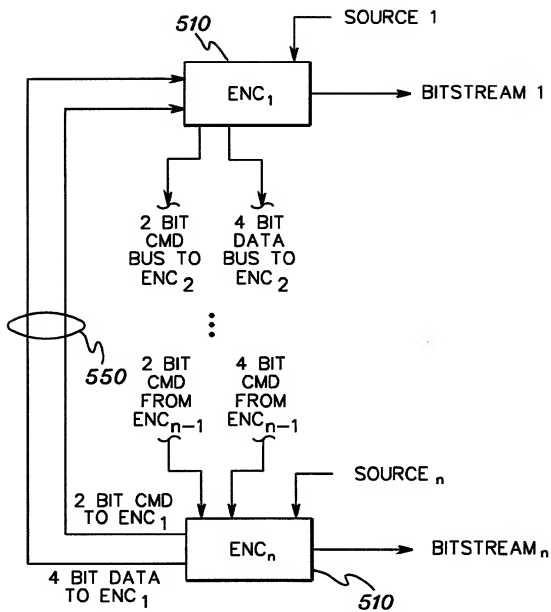


fig. 7

KEY FOR FIG. 8B

|           |   |
|-----------|---|
| $i$       | ENCODER INDEX. (1 THRU $n$ )  |
| $n$       | INDEX OF LAST ENCODER IN SYSTEM   |
| SUM       | CONTROL WORD WRITTEN TO COMMAND (CMD) BUS SIGNALING THE SUMMING OF THE VALUE BEING PASSED |
| TOTAL     | CONTROL WORD WRITTEN TO CMD BUS SIGNALING THE TOTAL OF THE VALUE BEING PASSED             |
| $V$       | VALUE READ FROM THE DATA BUS  |
| $V_i$     | VALUE CALCULATED BY EACH INDIVIDUAL ENCODER $i$   |
| $V_{SND}$ | VALUE WRITTEN TO DATA BUS   |
| $V_T$     | TOTAL VALUE (SAVED BY ENC $i$ )   |
| ==        | MEANS EQUAL TO  |
| =         | MEANS IS BEING ASSIGNED THE VALUE OF  |

*fig. 8A*



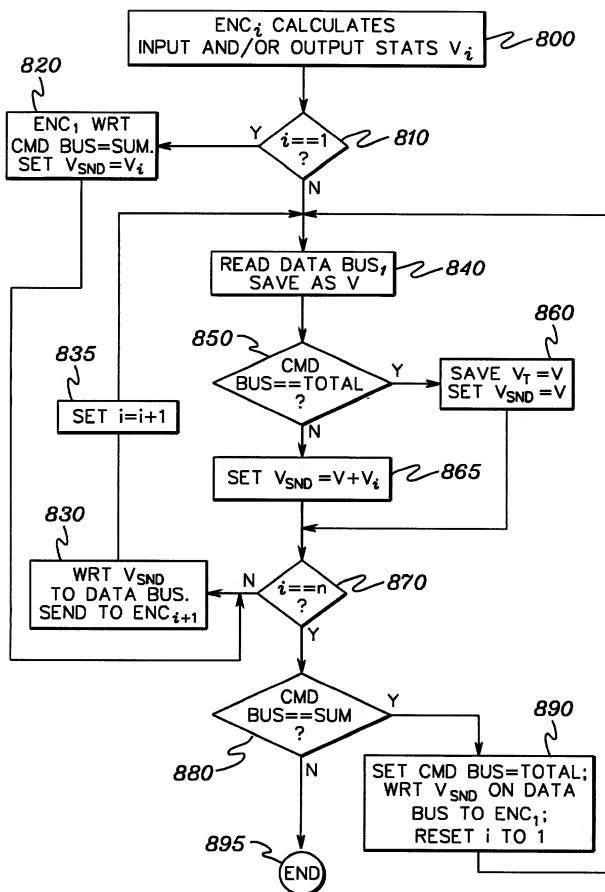


fig. 8B

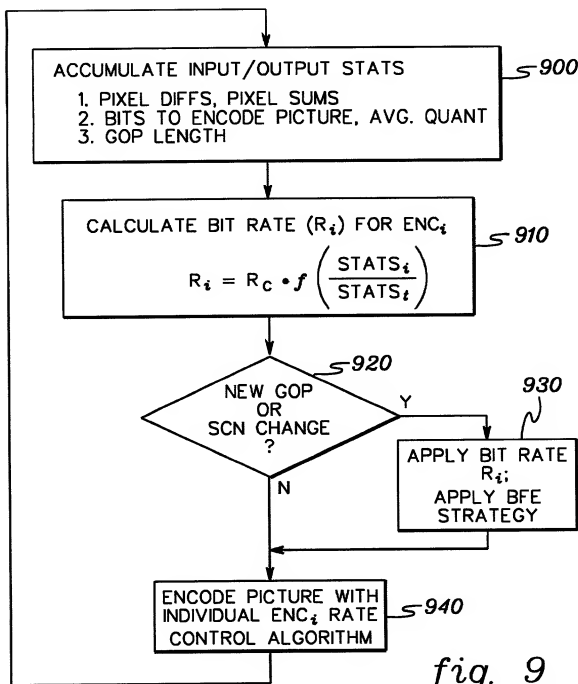


fig. 10

